

Column, i	1	2	3	4	5	6	7	8	9	10	11	12
Row, j	0.00000002	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
1	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
2	-0.00000010	-0.00000001	0.00000001	-0.00000009	-0.00000001	0.00000001	0.00000003	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
3	0.00000000	0.00000001	0.00000001	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
4	0.00000000	0.00000001	0.00000001	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5	0.00000003	0.00000004	-0.00000005	0.00000005	0.00000005	-0.00000012	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
6	-0.00000001	0.00000002	-0.00000003	0.00000000	0.00000001	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
7	-0.00000021	-0.00000023	0.00000023	-0.00000018	-0.00000021	0.00000000	0.00000007	0.00000000	-0.00000002	0.00000000	0.00000000	0.00000000
8	0.00000021	0.00000023	0.00000023	0.00000016	0.00000005	-0.00000001	0.00000021	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
9	0.00000039	0.00000038	-0.00000043	0.00000046	0.00000046	0.00000010	-0.00000011	0.00000001	0.00000007	-0.00000001	-0.00000002	0.00000000
10	0.00000018	0.00000018	-0.00000018	0.00000005	0.00000026	0.00000004	-0.00000005	-0.00000002	0.00000002	0.00000003	0.00000000	-0.00000001
11	-0.00000264	-0.00000264	0.00000254	-0.00000245	0.00000245	0.00000149	0.00000195	-0.00000195	-0.00000093	0.00000003	0.00000004	-0.00000001
12	0.00000269	-0.00000213	0.00000213	0.00000247	-0.00000204	-0.00000255	0.00000161	0.00000170	-0.00000283	0.00000053	0.00000000	0.00000020
13	0.00000198	0.00000198	-0.00000194	0.00000193	0.00000173	0.00000170	-0.00000253	0.00000018	0.00000014	-0.00000165	-0.00000079	0.00000007
14	0.00000101	0.00000101	-0.00000101	0.00000101	0.00000101	0.00000114	-0.00000114	0.00000049	0.00000018	0.00000006	-0.00000003	0.00000002
15	-0.00000295	-0.00000243	0.00000243	-0.00000371	-0.00000357	0.00000357	0.00000254	0.00000084	-0.00000539	0.00000007	-0.00000003	0.00000000
16	-0.00000114	-0.00000114	0.00000129	-0.00000113	-0.00000130	-0.00000153	0.00000080	0.00000114	-0.00000234	0.00000114	0.00000161	0.00000004
17	0.015475	0.02056715	-0.02056712	0.00205612	0.00205612	0.00000295	-0.00000537	-0.00000537	-0.00000242	0.00000170	-0.00000134	0.00000026
18	-0.00000212	-0.00000212	0.00000280	-0.00000280	0.00000280	0.00000212	-0.00000283	-0.00000517	-0.00000242	0.00000153	-0.00000094	-0.00000049
19	-0.00000230	-0.00000230	0.00000197	0.00000197	0.00000197	0.00000512	0.00000426	0.00000243	-0.00000048	0.00000214	0.00000531	0.00000071
20	0.00000101	0.00000101	-0.00000101	0.00000101	0.00000101	0.00000192	-0.00000194	-0.00000010	0.00000000	-0.00000003	-0.00000054	0.00000007
21	0.00000101	0.00000101	-0.00000101	0.00000101	0.00000101	0.00000194	-0.00000194	-0.00000010	0.00000000	-0.00000003	-0.00000054	0.00000007
22	0.00000101	0.00000101	-0.00000101	0.00000101	0.00000101	0.00000194	-0.00000194	-0.00000010	0.00000000	-0.00000003	-0.00000054	0.00000007

Filtering coefficients for the first level of wavelet decomposition.

FIG. 9-1

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Filtering coefficients for the first level of wavelet decomposition.

FIG. 9-2

Column	13	14	15	16	17	18	19	20	21
Row	1	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
2	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
3	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
4	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
6	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
7	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
8	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
9	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
11	-0.00000002	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
12	-0.00000001	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
13	0.00000006	0.00000000	-0.00000001	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
14	0.00000001	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15	-0.00000026	0.00000000	0.00000000	0.00000015	0.00000000	-0.00000001	0.00000000	0.00000000	0.00000000
16	-0.00000011	-0.00000001	0.00000000	0.00000003	0.00000000	-0.00000001	0.00000000	0.00000000	0.00000000
17	0.00000093	0.00000000	-0.00000018	0.00000001	0.00000004	0.00000000	-0.00000001	0.00000000	0.00000000
18	0.00000070	0.00000004	-0.00000016	0.00000000	0.00000003	0.00000000	-0.00000011	0.00000000	0.00000000
19	-0.00000124	0.00000006	-0.00000018	-0.00000003	-0.00000004	0.00000000	-0.00000031	0.00000000	0.00000000
20	-0.00000121	-0.00000008	-0.00000017	0.00000002	0.00000003	0.00000000	-0.00000031	0.00000000	0.00000000
21	0.00000154	0.00000052	-0.00000233	0.00000000	0.00000044	0.00000000	-0.00000008	0.00000000	0.00000002

Filtering coefficients for the second level of wavelet decomposition.

FIG. 10-1

$$h_{i,j}^l (l, j = 0, 1, \dots, 20)$$

Column Row	1	2	3	4	5	6	7	8	9	10	11	12
1	0.00000032	0.00000000	0.00000020	0.00000003	0.00000000	0.00000000	0.00000020	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
2	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
3	0.00000009	-0.00000001	0.00000001	-0.00000001	-0.00000001	-0.00000001	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
4	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5	0.00000006	0.00000003	0.00000004	0.00000003	0.00000004	0.00000004	0.00000000	-0.00000001	0.00000001	0.00000000	0.00000000	0.00000000
6	0.00000000	-0.00000003	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
7	-0.00000041	0.00000018	0.00000019	0.00000017	-0.00000017	0.00000018	0.00000000	0.00000000	0.00000000	-0.00000001	0.00000000	0.00000000
8	0.00000051	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
9	0.00000127	0.00000123	-0.00000128	0.00000123	0.00000124	0.00000119	-0.00000021	-0.00000027	0.00000001	-0.00000032	0.00000000	0.00000000
10	0.00000187	0.00000179	-0.00000172	0.00000172	0.00000174	0.00000173	0.00000162	-0.00000155	-0.00000101	0.00000102	0.00000102	0.00000103
11	-0.00000173	0.00000143	0.00000142	0.00000142	0.00000137	-0.00000139	0.00000154	0.00000115	-0.00000152	0.00000125	0.00000108	-0.00000011
12	0.00000190	-0.00000149	0.00000145	0.00000145	0.00000114	-0.00000128	-0.00000112	0.00000144	0.00000067	-0.00000114	0.00000094	0.00000000
13	0.00000195	0.00000179	-0.00000271	0.00000178	0.00000176	-0.00000261	-0.00000475	0.00000113	0.00000163	-0.00000114	-0.00000125	0.00000032
14	-0.0001624	0.00000156	-0.00000401	0.00000098	-0.00000269	0.00000105	0.00000060	-0.00000037	0.00000015	0.00000007	-0.00000042	-0.00000101
15	0.0001954	0.00000156	-0.00000446	0.00000249	0.00000201	0.00000065	0.00000243	0.00000064	0.00000054	0.00000015	-0.00000215	-0.00000205
16	-0.00097787	0.00015240	0.00013194	-0.00002667	-0.00005187	0.00000133	-0.00000595	0.00000105	-0.00000281	0.00000171	0.00000034	0.00000003
17	0.01534378	0.00025914	-0.00004582	0.00019444	0.00000451	-0.00005187	-0.00000587	0.000001516	-0.00000218	-0.00000336	0.00000023	0.00000000
18	0.0228116	0.00017763	-0.00002865	0.00000224	0.00000194	-0.00000534	0.00000088	0.00000145	-0.00000114	-0.00000317	-0.00000204	0.00000000
19	-0.0773950	-0.00062386	0.00055912	0.00124805	-0.00048562	0.00013594	0.00024484	-0.00000401	-0.00000211	0.00000255	0.00000082	-0.00000212
20	0.0002316	0.00000599	-0.00007308	0.0017765	0.00059814	-0.00015240	-0.00002498	0.000000258	0.000002795	-0.00000195	-0.00000443	0.00000079
21	0.47302566	0.08023166	-0.00289155	0.01534378	-0.00097787	0.0018456	-0.000016234	0.000003955	0.00000100	-0.000006793	0.00000107	0.00000167

FIG. 10-2

Filtering coefficients for the second level of wavelet decomposition.

Column Row	13	14	15	16	17	18	19	20	21
1	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
2	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
3	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
4	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
6	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
7	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
8	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
9	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
11	-0.00000002	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
12	-0.00000001	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
13	0.00000006	0.00000000	-0.00000001	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
14	0.00000001	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15	-0.00000027	0.00000000	0.00000005	0.00000000	-0.00000001	0.00000000	0.00000000	0.00000000	0.00000000
16	-0.00000011	-0.00000001	0.00000013	0.00000000	-0.00000001	0.00000000	0.00000000	0.00000000	0.00000000
17	0.00000089	0.00000000	-0.00000018	0.00000001	0.00000004	0.00000000	-0.00000001	0.00000000	0.00000000
18	0.00000072	0.00000004	-0.00000017	0.00000017	0.00000004	0.00000000	-0.00000001	0.00000000	0.00000000
19	-0.00000128	0.00000008	-0.00000019	-0.00000003	-0.00000004	0.00000000	0.00000001	0.00000000	0.00000000
20	0.00000123	-0.00000006	-0.00000018	0.00000003	0.00000003	-0.00000001	0.00000000	0.00000000	0.00000000
21	0.00001237	0.00000051	-0.00000241	0.00000000	0.00000046	0.00000000	-0.00000009	0.00000000	0.00000002

Column 1	1	2	3	4	5	6	7	8	9	10	11	12
Row 1	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
1	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
2	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
3	-0.00000000	-0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
4	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
6	0.00000000	-0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
7	0.00000000	0.00000000	-0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
8	0.00000000	-0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
9	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
11	-0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
12	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
13	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
14	-0.00000000	0.00000000	0.00000000	-0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15	0.00000000	0.00000000	-0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
16	-0.00000000	0.00000000	-0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
17	0.00000000	-0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
18	0.00000000	0.00000000	0.00000000	-0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
19	-0.00000000	0.00000000	0.00000000	-0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
20	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
21	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
	0.73595293	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000

$h_{3,j}^2 (l, j = 0, 1, \dots, 20)$

Filtering coefficients for the third level of wavelet decomposition.

FIG. 11-1

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FIG. 11-2

Filtering coefficients for the third level of wavelet decomposition.

Column	13	14	15	16	17	18	19	20	21
Row									
1	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
2	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
3	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
4	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
5	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
6	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
7	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
8	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
9	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
10	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
11	-0.00000002	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
12	-0.00000001	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
13	0.00000005	0.00000000	-0.00000011	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
14	0.00000001	0.00000000	0.00000046	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
15	-0.00000028	0.00000000	0.00000049	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
16	-0.00000011	-0.00000001	0.00000003	0.00000000	-0.00000001	0.00000000	0.00000000	0.00000000	0.00000000
17	0.00000066	0.00000000	-0.00000018	0.00000001	0.00000004	0.00000000	0.00000001	0.00000000	0.00000000
18	0.00000070	0.00000004	-0.00000016	0.00000000	0.00000003	0.00000000	-0.00000001	0.00000001	0.00000000
19	-0.00000174	0.00000013	0.00000018	-0.00000003	-0.00000004	0.00000000	0.00000001	0.00000000	0.00000000
20	0.00000121	-0.00000094	-0.00000117	0.00000003	0.00000003	0.00000000	-0.00000001	0.00000000	0.00000000
21	0.00000124	0.00000052	-0.00000233	0.00000000	0.00000044	0.00000000	-0.00000002	0.00000000	0.00000002